

AMENDMENTS TO THE SPECIFICATION

On page 1, please delete the title "OSTEOGENIC DEVICES" and replace with the following title:

NUCLEIC ACID MOLECULES ENCODING OSTEOGENIC PROTEINS

On pages 9-11, please replace the paragraph starting with "In one preferred aspect" and ending with "such activity" with the following amended paragraph:

In one preferred aspect, these proteins comprise species of the generic amino acid sequences (SEQ ID NO: 3 and SEQ ID NO: 4, respectively):

```
1      10      20      30      40      50
      LXVXFDXGWXXWXXXPXGXXAXYCXGXCXXPXXXXXXXXNHAXX
      60      70      80      90      100
QXXVXXNXXXXPXXCCXPXXXXXXXXLXXXXXXXXVXLXXYXXMXVXXCXCX
```

or

```
1      10      20      30      40      50
      CXXXXLXVXFDXGWXXWXXXPXGXXAXYCXGXCXXPXXXXXXXXNHAXX
      60      70      80      90      100
QXXVXXNXXXXPXXCCXPXXXXXXXXLXXXXXXXXVXLXXYXXMXVXXCXCX
```

where the letters indicate the amino acid residues of standard single letter code, and the Xs represent amino acid residues. Preferred amino acid sequences within the foregoing generic sequences are (SEQ ID NO: 5 and SEQ ID NO: 6, respectively):

```
      10      20      30      40      50
      LYVDFRDVGWNDWIVAPPGYHAFYCHGECFPFLADHLNSTNHAIV
      K S S L  QE VIS E FD Y  E A AY MPESMKAS  VI
      F E K I  DN   L   N S   Q  ITK F P   TL
      A   S   K
      60      70      80      90      100
      QTLVNSVNP GKIPKACCVPTEL SAISMLYLDENENVVLK NYQDMVVEGCGCR
SI HAI SEQV EP A EQMNSLAI FFNDQDK I RK EE T DA H H
      SI HAI SEQV EP A EQMNSLAI FFNDQDK I RK EE T DA H H
      RF   T   S   K DPV V   Y N S   H RN   RS
      N   S               K   P   E
```

and

10	20	30	40	50
CKRHPLYVDFRDVGWNDWIVAPPGYHAFYCHGECPPFLADHLNSTNHAIV				
RRRS	K S S L	QE VIS	E FD Y	E A AY MPESMKAS VI
KE F	E K I	DN	L N S	Q ITK F P TL
Q	A	S	K	
60	70	80	90	100
QTLVNSVNP GKIPKACCVPTLSAISMLYLDENENVVLK NYQDMVVEGCGCR				
SI HAI SEQV EP A EQMNSLAI FFNDQDK I RK EE T DA H H				
SI	HAI	SEQV	EP	A EQMNSLAI FFNDQDK I RK EE T DA H H
RF	T	S	K	DPV V Y N S H RN RS
N	S		K	P E

Wherein each of the amino acids arranged vertically at each position in the sequence may be used alternatively in various combinations. Note that these generic sequences have 6 and preferably 7 cysteine residues where inter- or intramolecular disulfide bonds can form, and contain other critical amino acids which influence the tertiary structure of the proteins. These generic structural features are found in previously published sequences, none of which have been described as capable of osteogenic activity, and most of which never have been linked with such activity.